

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P384085

Luminaire Tested: **14ID-55-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-55-L850-CFD1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

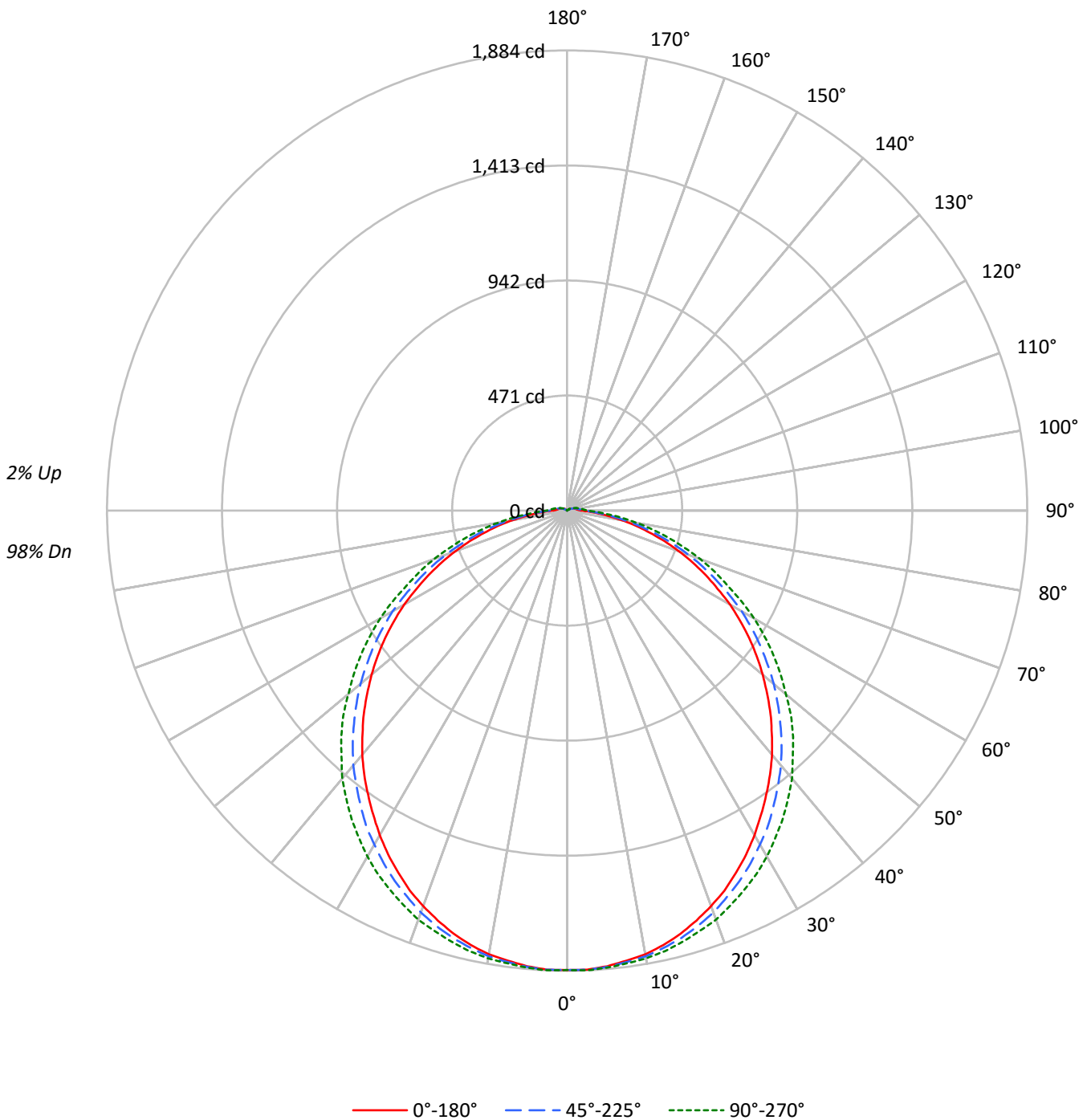
Lumens per Lamp: N/A
Luminaire Lumens: 5571.7 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 48.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P384085
CATALOG NUMBER: 14ID-55-L850-CFD1

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5063	5063	5063
5°	5050	5034	5037
10°	5022	4998	5013
15°	4969	4947	4980
20°	4897	4884	4954
25°	4809	4800	4901
30°	4709	4706	4849
35°	4600	4606	4779
40°	4506	4504	4702
45°	4391	4375	4594
50°	4269	4251	4453
55°	4144	4101	4323
60°	4006	3937	4158
65°	3822	3697	3906
70°	3616	3457	3708
75°	3379	3134	3406
80°	3132	2748	3032
85°	3030	2367	2591



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.2	3.2
10°-20°	510.7	9.2
20°-30°	771.1	13.8
30°-40°	923.9	16.6
40°-50°	955.2	17.1
50°-60°	865.0	15.5
60°-70°	669.4	12.0
70°-80°	411.2	7.4
80°-90°	163.4	2.9
90°-100°	59.6	1.1
100°-110°	36.6	0.7
110°-120°	18.8	0.3
120°-130°	8.0	0.1
130°-140°	0.5	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1460.0	26.2
0°-40°	2383.9	42.8
0°-60°	4204.1	75.5
0°-90°	5448.1	97.8
90°-120°	115.0	2.1
90°-150°	123.6	2.2
90°-180°	124.0	2.2
0°-180°	5571.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1881	1881	1881	1881	1881	
5°	1873	1873	1876	1876	1878	178
15°	1794	1796	1811	1822	1828	506
25°	1636	1647	1672	1700	1715	754
35°	1421	1438	1474	1514	1540	890
45°	1178	1192	1234	1285	1308	908
55°	910	929	966	1008	1031	813
65°	627	641	672	706	723	620
75°	350	367	384	410	429	373
85°	122	130	141	155	164	121
90°	56	65	71	79	85	33
95°	42	48	54	59	65	34
105°	31	31	34	37	40	33
115°	20	17	17	20	23	20
125°	11	8	6	8	11	11
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384085

CATALOG NUMBER: 14ID-55-L850-CFD1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1881.3	1881.3	1881.3	1881.3	1881.3
2.5°	1881.3	1878.4	1881.3	1881.3	1884.1
5°	1872.8	1872.8	1875.6	1875.6	1878.4
7.5°	1858.7	1858.7	1864.3	1867.1	1870.0
10°	1844.5	1844.5	1853.0	1855.8	1861.5
12.5°	1821.9	1824.8	1833.2	1841.7	1847.4
15°	1793.7	1796.5	1810.6	1821.9	1827.6
17.5°	1759.8	1765.4	1782.4	1799.3	1805.0
20°	1723.1	1731.6	1751.3	1771.1	1782.4
22.5°	1683.5	1689.2	1711.8	1737.2	1748.5
25°	1635.5	1646.8	1672.2	1700.5	1714.6
27.5°	1587.5	1598.8	1627.0	1660.9	1677.9
30°	1533.8	1545.1	1579.0	1615.7	1635.5
32.5°	1477.3	1491.5	1531.0	1567.7	1587.5
35°	1420.8	1437.8	1474.5	1514.0	1539.5
37.5°	1364.3	1378.5	1418.0	1460.4	1485.8
40°	1305.0	1319.1	1361.5	1403.9	1432.1
42.5°	1240.1	1257.0	1299.4	1344.6	1367.2
45°	1177.9	1192.0	1234.4	1285.2	1307.8
47.5°	1110.1	1129.9	1169.4	1217.5	1242.9
50°	1045.1	1062.1	1104.5	1149.7	1169.4
52.5°	977.4	994.3	1033.8	1079.0	1101.6
55°	909.6	929.3	966.1	1008.4	1031.0
57.5°	838.9	858.7	895.4	932.2	957.6
60°	771.1	790.9	824.8	861.5	884.1
62.5°	694.9	711.8	748.6	788.1	805.0
65°	627.1	641.2	672.3	706.2	723.1
67.5°	556.5	573.4	601.7	632.7	652.5
70°	485.9	505.6	528.2	556.5	579.1
72.5°	418.1	435.0	454.8	483.0	502.8
75°	350.3	367.2	384.2	409.6	429.4
77.5°	290.9	299.4	316.4	339.0	358.7
80°	226.0	237.3	251.4	274.0	288.1
82.5°	169.5	180.8	192.1	209.0	223.2
85°	121.5	129.9	141.2	155.4	163.8
87.5°	81.9	90.4	98.9	110.2	118.6
90°	56.5	65.0	70.6	79.1	84.7
92.5°	48.0	53.7	59.3	65.0	70.6
95°	42.4	48.0	53.7	59.3	65.0
97.5°	39.5	42.4	48.0	53.7	56.5
100°	36.7	39.5	42.4	48.0	50.8
102.5°	33.9	33.9	39.5	42.4	45.2
105°	31.1	31.1	33.9	36.7	39.5
107.5°	28.2	28.2	31.1	31.1	36.7
110°	25.4	22.6	25.4	25.4	31.1



TEST NUMBER: P384085

CATALOG NUMBER: 14ID-55-L850-CFD1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	22.6	19.8	22.6	22.6	25.4
115°	19.8	16.9	16.9	19.8	22.6
117.5°	16.9	14.1	14.1	14.1	19.8
120°	16.9	14.1	11.3	11.3	16.9
122.5°	14.1	11.3	8.5	11.3	14.1
125°	11.3	8.5	5.6	8.5	11.3
127.5°	8.5	8.5	2.8	5.6	8.5
130°	8.5	5.6	2.8	5.6	5.6
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)